



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choe et al.

Art Unit: 3641

Serial No.: 10/065,772

Examiner: D.L. Greene

Filed: November 18, 2002

For: APPARATUS AND METHODS FOR  
OPTIMIZING REACTOR CORE  
COOLANT FLOW DISTRIBUTIONMail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## TRANSMITTAL

- Transmitted herewith is:  
Response To Species Election (2 pgs.), in response to Office Action dated May 3, 2005  
Transmittal Form (3 pgs.), in duplicate  
Return Post Card

## STATUS


- Applicant  
☐ claims small entity status.  
☒ is other than a small entity.

CERTIFICATE OF MAILING BY EXPRESS MAIL TO  
THE COMMISSIONER FOR PATENTS

Express Mail No. EL977934026US

Date: June 3, 2005

I hereby certify that the documents listed above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to Mail Stop: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Michael Tersillo, Reg. No. 42,180

### EXTENSION OF TERM

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply.

(complete (a) or (b), as applicable)

- (a) \_\_\_\_\_ Applicant petitions for an extension of time under 37 C.F.R. 1.136  
(Fees: 37 C.F.R. 1.17(a)-(d) for the total number of months checked below:)

Extension for response within:	Other than small entity Fee	Small entity Fee (if applicable)
_____ first month	\$ 120.00	\$ 60.00
_____ second month	\$ 450.00	\$ 225.00
_____ third month	\$ 1,020.00	\$ 510.00
_____ fourth month	\$1,590.00	\$ 795.00
_____ fifth month	\$2,160.00	\$1,080.00

Fee: \$ \_\_\_\_\_

If an additional extension of time is required, please consider this a petition therefore.

*(Check and complete the next item, if applicable)*

\_\_\_\_\_ An extension of \_\_\_\_\_ months has already been secured. The fee paid  
therefore \$ \_\_\_\_\_ is deducted from the total fee due for the total  
months of extension now requested.

Extension fee due with this request \$120.00

OR

- (b)   X   Applicant believes that no extension of term is required. However, this  
conditional petition is being made to provide for the possibility that  
applicant has inadvertently overlooked the need for a petition for extension  
of time.

## FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

	(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN SMALL ENTITY
	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	ADDITIONAL RATE FEE	OR	ADDITIONAL RATE FEE
TOTAL				=	x \$25.00 = \$		x \$50.00 = \$
INDEP.		MINUS		=	x \$100.00 = \$		x \$200.00 = \$
—	FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+ \$180.00 = \$		+ \$360.00 = \$
					TOTAL ADDITIONAL FEE \$	OR	TOTAL ADDITIONAL FEE \$

- (a) ☒ No additional fee for Claims is required

**OR**

- (b) ☐ Total additional fee for claims required \$ \_\_\_\_\_

## FEE PAYMENT

5. Attached is a check in the sum of \$\_\_\_\_\_
- ☐ Charge Deposit Account No. 01-2384 the sum of \$\_\_\_\_\_.  
A duplicate of this transmittal is attached.

## FEE DEFICIENCY

6. ☒ If any additional extension and/or fee is required, charge Deposit Account No. 01-2384.

**AND/OR**

- ☒ If any additional fee for claims is required, charge Deposit Account No. 01-2384.
7. ☐ Other:



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24-NS-6042  
PATENT

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	:	Art Unit: 3641
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COOLANT FLOW DISTRIBUTION	:	

**RESPONSE TO SPECIES ELECTION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

In response to the Office Action dated May 3, 2005, Applicants, with traverse, elect Species C. Applicants submit that Claims 1-22 read on Species C.


The requirement for election is traversed because Species A, B, and C clearly are related. Applicants respectfully submit that independent Claims 1, 13, and 18 are open ended because they each recite "comprising" and, therefore, are readable on Species C. Also, Claims 2-12 depend from Claim 1, Claims 14-17 depend from Claim 13, and Claims 19-22 depend from Claim 18 which make these dependent claims open ended and also readable on Species C.

Further, Applicants respectfully submit that a thorough search and examination of Species C would be relevant to the examination of Species A and B, and would not be a serious burden on the examiner. Particularly, Species A, B, and C have already been searched, and Claims 1-22 have already been examined and allowed (see Notice of Allowance dated May 3,

2004). Additionally, requirements for election are not mandatory under 35 U.S.C. Accordingly, Applicants respectfully request that the election requirement be withdrawn.

In view of the foregoing remarks, all the claims now active in this application are believed to be in condition for allowance. Favorable action is respectfully solicited.

Respectfully submitted,

A handwritten signature in cursive script, reading "Michael Tersillo", written in black ink. The signature is positioned above a horizontal line.

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